

FEDERAL COMMUNICATIONS COMMISSION

CLASS OF STATION FM

STH

The following application is submitted for action by the Chief, Broadcast Bureau.

ST	FILE NUMBER	CALL	APPLICANT AND LOCATION	NATURE OF APPLICATION
P/ BPED	-900905ML N/M	NEW 89.3MHZ	BEACON BROADCASTING CORPORATION ALLENTOWN PA	CP FOR NEW FM EDUCATIONAL ON: FREQUENCY: 89.3 MHZ; ERP:0.150 KW H&V; HAAT: 244.8 METERS H&V40 33 54 75 26 26

Sh. D. T. H. R.

ORIGINAL

SOUTHMAYD SIMPSON & MILLER

ORIGINAL

1233 Twentieth Street, N.W.
Second Floor
Washington, D.C. 20036
Telephone: (202) 331-4100
Telecopier: (202) 331-4123

SEP 6 3 05 PM '90

September 5, 1990

RECEIVED

'SEP - 5 1990

Federal Communications Commission
Office of the Secretary

Ms. Donna R. Searcy
Secretary
Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

Dear Ms. Searcy;

Transmitted herewith, in triplicate, on behalf of Beacon Broadcasting Corporation is an FCC Form 340 application seeking a construction permit for a noncommercial, educational FM station on Channel 207A at Allentown, Pennsylvania.

The applicant is a non-profit corporation with an educational objective and is applying for a noncommercial, educational broadcast facility. Accordingly, this is a fee-exempt application under the Commission's fee schedule and procedures. The application contains a copy of Beacon's articles of incorporation in support of the fee exemption.

Please contact the undersigned should you have any questions on this matter.

Very truly yours,

Beacon Broadcasting Corporation

By:

Jeffrey D. Southmayd

Its Attorney

REC-452
SEP 06 1990
FBI EXAMINERS

89.3MHZ
BPED -900905ML NEW PA
ALENTOWN
BEACON BROADCASTING CORPORATION

FCC 340

Code 30
9-14-90

Approved by OMB
3060-0034
Expires 4/30/92

See Page 23 for information
regarding public burden estimate

APPLICATION FOR CONSTRUCTION PERMIT FOR
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION
(Carefully read instructions before filing form) Return only form to FCC

For Commission Use Only

File No. **BPED 900905ML**

Section 1 - GENERAL INFORMATION

1. Name of Applicant		
Beacon Broadcasting Corporation		
Federal Communications Commission Office of the Secretary		
Street Address or P.O. Box 401 North 17th Street, Suite 205		
City Allentown	State PA	ZIP Code 18104
Telephone No. (Include Area Code) (215) 439-0044		

Send notices and communications to the following person at the address below:		
Name Jeffrey D. Southmayd Southmayd, Simpson & Miller		
Street Address or P.O. Box 1233 20th Street, N.W., Suite 205		
City Washington	State DC	ZIP Code 20036
Telephone No. (Include Area Code) (202) 331-4100		

2. This application is for:

☐

AM

☒

FM

☐

TV

(a) Channel No. or Frequency 207A 89.3

(b) Principal Community	City	State
	Allentown	PA

(c) Check one of the following boxes:

☒ Application for NCEB License

Section II - LEGAL QUALIFICATIONS

Name of Applicant

Beacon Broadcasting Corporation

1. Applicant is: *(Check one box below)*

- ☐ (a) governmental or public educational agency, board or institution
- ☐ (b) private nonprofit educational institution
- ☒ (c) Other *(specify)*

2. For applicants 1(c) only, describe in an Exhibit the nature and educational purposes of the applicant.

Exhibit No.
1

3. For applicants 1(c), applying for a new noncommercial educational television station only, describe in an Exhibit how the applicant's officers, directors and members of its governing board are broadly representative of the educational, cultural and civic segments of the principal community to be served.

Exhibit No.
N/A

4. Describe in an Exhibit how the proposed station will be used, in accordance with 47 C.F.R. Section 73.503 or Section 73.621, for the advancement of an educational program.

Exhibit No.
1

5. Is there any provision contained in any by-laws, articles of incorporation, partnership agreement, charter, statute or other document which would restrict the applicant in advancing an educational program or complying with any Commission rule, policy or provision of the Communications Act of 1934, as amended?

☐ Yes ☒ No

If Yes, provide particulars in an Exhibit.

Exhibit No.
N/A

CITIZENSHIP AND OTHER STATUTORY REQUIREMENTS

6. ~~(a) Is the applicant in violation of the provisions of Section 310 of the Communications Act of 1934~~

☐ Yes ☒ No

Section II - LEGAL QUALIFICATIONS (Page 2)

PARTIES TO APPLICATION

8. Complete the following Table with respect to all parties to this application:

(NOTE: If the applicant considers that to furnish complete information would pose an unreasonable burden, it may request that the Commission waive the strict terms of this requirement with appropriate justification.)

INSTRUCTIONS: If applicant is a corporation or an unincorporated association with 50 or fewer stockholders, stock subscribers, holders of membership certificate or other ownership interest, fill out all columns, giving the information requested as to all officers, directors and members of governing board. In addition, give the information as to all persons or entities who are the beneficial or record owners of or have the right to vote capital stock, membership or ownership interests or are subscribers to such interests. If the applicant has more than 50 stockholders, stock subscribers or holders of membership certificates or other ownership interests, furnish the information as to officers, directors, members of governing board, and all persons or entities who are the beneficial or record owners of or have the right to vote 1% or more of the capital stock, membership or ownership interests. If applicant is a governmental or public educational agency, board or institution, fill out columns (a), (b), and (c) as to all members of the governing board and chief executive officers.

Name and Residence Address(es) (a)	Office Held (b)	Director or Member of Governing Board		% of: Ownership (O) or Voting Stock (VS) or Membership (M) (d)
		YES	NO	
		(c)		
John P. Hentosh, M.D. 401 North 17th Street Allentown, PA 18104	President	X		1 Vote
Nestor E. Barolin 460 Longacre Drive Cherryville, PA 18035	Secretary	X		1 Vote
Brooke Hartman, Sr. 1168 Bellair Court Allentwon, PA 18103	Treasurer	X		1 Vote
George Becker 2452 South Lumber Street Allentwon, PA 18062		X		1 Vote
John Carpenter 107 South Walnut Street Macungie, PA 18062		X		1 Vote
Robert Walker 6610 Crown Lane Zionsville, PA 18092		X		1 Vote

Section 11 - LEGAL QUALIFICATIONS (Page 3)

9. Does the applicant or any party to this application have, or have they had, any interest in:

(a) a broadcast station, or pending broadcast station application before the Commission?

☐ Yes ☒ No

(b) a broadcast application which has been dismissed with prejudice by the Commission?

☐ Yes ☒ No

(c) a broadcast application which has been denied by the Commission?

☐ Yes ☒ No

(d) a broadcast station, the license of which has been revoked?

☐ Yes ☒ No

(e) a broadcast application in any pending or concluded Commission proceeding which left unresolved character issues against the applicant?

☐ Yes ☒ No

If the answer to any of the questions in (a)-(e) above is Yes, state in an Exhibit the following information:

Exhibit No.
N/A

(1) Name of party having interest;

(2) Nature of interest or connection, giving dates;

(3) Call letters of stations or file number of application or docket; and

(4) Location.

SECTION III - FINANCIAL QUALIFICATIONS

Note: If this application is for a change in an operating facility, DO NOT fill out this Section.

1. Is this application contingent upon receipt of a grant from the National Telecommunications and Information Administration? ☐ Yes ☒ No

2. Is this application contingent upon receipt of a grant from a charitable organization, the approval of the budget of a school or university, or an appropriation from a state, county, municipality or other political subdivision? ☐ Yes ☒ No

NOTE: If either Questions 1 or 2 is answered "Yes," your application cannot be granted until all of the necessary funds are committed or appropriated. In the case of grants from the National Telecommunications and Information Administration, no further action on your part is required. If you rely on funds from a source specified in Question 2, **you must advise the F.C.C. when the funds are committed or appropriated.** This should be accomplished by letter amendment to your application, in triplicate, signed in the same manner as the original application, and clearly identifying the application to be amended.

3. The applicant certifies, except as noted above, that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without additional funds. ☒ Yes ☐ No

SECTION IV - PROGRAM SERVICE STATEMENT

Attach as an Exhibit, a brief description, in narrative form, of the planned programming service relating to the issues of public concern facing the proposed service area.

Exhibit No.

1

NOTE: No program service statement need be filed where the proposed station's programming would be wholly "instructional" as that type of programming is defined in the Instructions to this Section.

SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees?

☐ Yes ☒ No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 396-A).

SECTION VII - CERTIFICATION

1. Has or will the applicant comply with the public notice requirements of 47 C.F.R. Section 73.3580?

☒ Yes ☐ No

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. *(See Section 304 of the Communications Act of 1934, as amended.)*

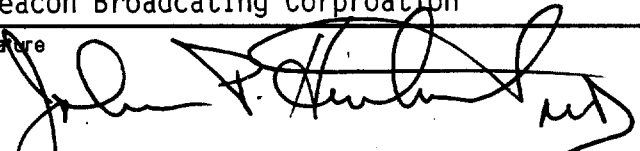
The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT.
U.S. CODE, TITLE 18, SECTION 1001.**

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant Beacon Broadcasting Corporation	Title President
Signature 	Date September 4, 1990

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, analysts, engineers and applications examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 76 to 80 hours with an average of 78 hours 04 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Office of Managing Director, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0034), Washington, D.C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

Exhibit No. 1
Beacon Broadcasting Corporation

STATEMENT OF EDUCATIONAL OBJECTIVE

It shall be the purpose of this organization to have an educational, scientific, cultural, instructional, charitable and spiritual impact on the community. In this regard, the directors of the corporation have perceived several needs in our community:

1. An understanding and appreciation of religious literature.
2. A religious analysis of the national and local news.
3. Regular programming directed to women and addressing the needs of both working and non working women.
4. Programming that will educate the community on how to develop strong families.
5. Educational programming specifically designed for children.
6. An understanding and appreciation for religious oriented music.

The Beacon Broadcasting Corporation intends to meet these needs accordingly:

1. Beacon Broadcasting Corporation will air regular, uninterrupted reading of religious and educational books, literature and periodicals.
2. Beacon Broadcasting Corporation will broadcast the International Media Service news every hour to provide national, international, and significant religious news, as well as regular reporting on the significant religious events of our own community.
3. Beacon Broadcasting Corporation will air programming dedicated to helping women cope with the pressures of today's society. Moody Broadcasting Network's "Woman to Woman", and "Sugar and Spice" will be regular features. Both programs feature household hints, interviews, devotional thoughts and music. Locally produced programming may also be designed by and for women with the same goals.
4. Beacon Broadcasting Corporation will transmit programming designed to strengthen the families of Allentown and the surrounding Lehigh Valley. Daily programming like the "Dobson Family Commentary", "Family Forum", "Your Money in Changing Times" and "Insight for Living" will educate our listeners on how to fine tune their families in all areas of health and well being.
5. Beacon Broadcasting Corporation will air regular programming to teach

APPLICANT'S ACCT NO.

DSCB: 15-7316 (Rev. 11-72)

Filing Fee: \$75
AIN-8
Articles of
Incorporation—
Domestic Nonprofit Corporation

9034 37

(Line for numbering)

1573589

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF STATE
CORPORATION BUREAU

Filed this JUN 28 1988 of 19
Commonwealth of Pennsylvania
Department of State

Christopher A. Lewis

Secretary of the Commonwealth

(Box for Certification)

In compliance with the requirements of 15 Pa.C.S. §7316 relating to articles of incorporation) the undersigned, desiring to be incorporated as a nonprofit corporation, hereby certifies (certify) that:

1. The name of the corporation is:

Beacon Broadcasting Corporation

The location and post office address of the initial registered office of the corporation in this Commonwealth is:

Suite 205 - 401 North 17th Street

(NUMBER)

(STREET)

Allentown

(CITY)

Pennsylvania

18104

(ZIP CODE)

3. The corporation is incorporated under the Nonprofit Corporation Law of the Commonwealth of Pennsylvania, does not contemplate pecuniary gain or profit, incidental or otherwise, and is organized exclusively for charitable, religious and educational purposes as defined in Section 501(c)(3) of the Internal Revenue Code of 1986, as amended, and for the following specific purpose and purposes: to provide instruction, information, and education in religious affairs, doctrines, creeds and other matters, and to do all of these things by any and all lawful means, manners and methods of public and private dissemination and communication, utilizing various forms of media as shall be deemed appropriate, including, by way of illustration but not limitation, publications, printing, radio, television, electronics, and satellites; and for these purposes to have, possess and enjoy all the rights, benefits and privileges of said Act of Assembly.

XX

4. The term for which the corporation is to exist is: perpetual.

DSCB: 15-7316 (Rev. 11-72)-2

5. The corporation is organized upon a nonstock basis.

6. (Strike out if inapplicable) The corporation shall have no members. SEE ADDENDUM FOR ARTICLE 6)

7. (Strike out if inapplicable) The incorporators constitute a majority of the members of the committee authorized to incorporate (SEE ADDENDUM FOR ARTICLE 7)

(NAME OF UNINCORPORATED ASSOCIATION)

by the requisite vote required by the organic law of the association for the amendment of such organic law.

8. The name(s) and post office address(es) of each incorporator(s) is (are): (SEE ADDENDUM FOR ARTICLE 8)

NAME

ADDRESS

(including street and number, if any)

John P. Hentosh, M.D., 401 North 17th St., Allentown, PA 18104
Nestor E. Barolin, 460 Longacre Dr., Cherryville, PA 18035
Brooke Hartman, Sr., 1168 Bellair Court, Allentown, PA 18103
George Becker, 2452 South Lumber St., Allentown, PA 18103
John Carpenter, 107 South Walnut St., Macungie, PA 18062
Robert Walker, 6610 Crown Lane, Zionsville, PA 18092

IN TESTIMONY WHEREOF, the incorporator(s) has (have) signed and sealed these Articles of Incorporation.

ADDENDUM TO ARTICLES OF INCORPORATION
of
BEACON BROADCASTING CORPORATION

6. The members of the corporation shall be made up of the members of the Board of Directors of the corporation.

7. The Board of Directors shall constitute the membership of the corporation and the initial Board of Directors shall be composed of the following individuals who shall hold office until their successors are duly elected and qualified in accordance with the by-laws of the corporation:

John P. Hentosh, M.D.:	401 North 17th Street, Allentown, Pennsylvania 18104
Nestor E. Barolin:	460 Longacre Drive, Cherryville, Pennsylvania 18035
Brooke Hartman, Sr.:	1168 Bellair Court, Allentown, Pennsylvania 18103
George Becker:	2452 South Lumber Street, Allentown, Pennsylvania 18062
John Carpenter:	107 South Walnut Street, Macungie, Pennsylvania 18062
Robert Walker:	6610 Crown Lane, Zionsville, Pennsylvania 18092

8. Upon the voluntary or involuntary dissolution and winding up of the affairs of the corporation, the real and personal property of the corporation and all its other assets shall be distributed to one or more organizations recognized by the Internal Revenue Service as tax exempt under Section 501(c)(3) of the Internal Revenue Code of 1986, as amended, and as being organized exclusively for religious, charitable, or educational purposes, and in no event shall any of the assets of this corporation be distributed so as to inure to the benefit of any member of the corporation or any other individual. The organization or organizations to which such assets are to be distributed shall be determined by a majority of two-thirds (2/3) of the membership eligible to vote at such time.

APPENDIX B

To be included with FCC Form 301, Application to Construct or Make Changes in an Existing Commercial Broadcast Station.

CERTIFICATION OF SITE AVAILABILITY

1. The applicant certifies that it has reasonable assurance in good faith that the site or structure proposed in Items 1 and/or 2, Section V-C, FCC Form 301, as the location of its transmitting antenna, will be available to the applicant for applicant's intended purpose.

YES X NO

If no, explain fully:

2. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure.

Barry Fisher
Name of Person Contacted

(215) 797-4530
Telephone Number

Person contacted (check one):

Owner

Owner's Agent X

Other (specify)


Applicant's Signature

9/4/90
Date

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245 Meters

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Radiation Level

FCC Form 340, Section V-B

ENGINEERING STATEMENT

**BEACON BROADCASTING CORPORATION
APPLICATION FOR A NEW
NON COMMERCIAL FM STATION
ALLENTOWN, PENNSYLVANIA**

Channel 207A

0.15 kW(Max) DA

245 Meters

May 30, 1990

LECHMAN & JOHNSON, INC.

ENGINEERING STATEMENT

BEACON BROADCASTING CORPORATION APPLICATION FOR A NEW NON COMMERCIAL FM STATION ALLENTOWN, PENNSYLVANIA

Channel 207A

0.15 kW(Max) DA

245 Meters

This Engineering Statement is submitted in support of an application by Beacon Broadcasting Corporation seeking authorization to construct a new non commercial FM Broadcast Station to serve Allentown, Pennsylvania. The proposal for this facility requests operation on Channel 207A (89.3 MHz), with a maximum effective radiated power (ERP) of 150 watts in the horizontal and vertical planes utilizing a directional antenna system. The effective antenna height above average terrain (HAAT) is 245 meters.

The applicant proposes to sidemount an FM antenna on WFMZ(TV) tower. The geographic coordinates of WFMZ(TV)'s tower site are:

North Latitude: 40° 33' 54"

West Longitude: 75° 26' 26"

These coordinates were taken from WFMZ (TV) records on file with the Commission and verified by using a 7.5 minute series topographic quadrangle map published by the U.S. Geological Survey. The ground elevation at the proposed site is 930 feet (283.4 m) above mean sea level.

It is proposed to install an FM transmitter with the transmitter power output adjusted to 0.085 kW. The transmitter power output will then be fed through 116 meters of Andrew, Type HJ5-50, 7/8 inch air dielectric heliax transmission line. Attenuation for this type of line operating on 89.3 MHz is approximately 1.15 dB/100 meters. The rated efficiency for this length of line is calculated to be 73.6%.

A Harris, Type FMD-3A, 3 bay low power directional dual polarized FM antenna will be used for the proposed operation. The manufacturer's rated power gain for the proposed antenna is 2.39 in horizontal plane and 2.29 in vertical plane.

Based upon the above noted transmitter power output, transmission line efficiency and antenna power gain, the proposed maximum ERP is calculated to be 0.150 kW in horizontal plane and 0.143 kW in vertical plane.

Table I is a study of all co-channel and adjacent channel allocations, applications and licensed FM stations pertinent to operating on Channel 207 at the proposed site.

Table II lists all Channel 6 television stations pertinent to the proposed FM operation on Channel 207.

Table III includes the pertinent data used to predict the distances to the 70 dBu and 60 dBu coverage contours of the proposed operation. These distances were determined by using Figure 1, F(50,50) FM propagation curves of Section 73.333 of the Commission's Rules, at an effective radiated power as defined on the directional antenna pattern, and the antenna elevation data shown in Table III. The average elevation between each 2-10 mile sector (taken from WFMZ(TV) records) was used in determining the effective antenna height. All contour predictions were done in accordance with the provisions of Section 73.313 of the FCC's Rules and Regulations.

Table IV is a tabulation of all FM stations pertinent to an allocation study for Channel 207 located at the proposed site. The data and computations listed in this Table show that the proposed Channel 207 complies with Section 73.509 of the FCC Rules and Regulations, with the exception of new application 891019MF Allentown, Pennsylvania and new application 900202MC Bethlehem, Pennsylvania. Those applications are mutually exclusive with this instant application for a new non commercial FM station.

Table V is a tabulation of all affected Channel 6 television stations pertinent to an allocation study for Channel 207 located at the proposed site.

Exhibit VB-1 is a sketch of the proposed antenna and supporting structure. All pertinent heights and elevation data are included.

Exhibit VB-2 contains all the information relating to the proposed directional antenna.

Exhibit VB-3 is a statement which addresses the potential of intermodulation interference generated to radio and TV stations in the vicinity of the proposed site and the applicant's acceptance of the responsibility in this regard.

Exhibits VB-4A & VB-4B are maps showing the proposed site and surrounding area. Exhibit VB-4A is a full scale section of a 7.5 minute topographic quadrangle map (Allentown, PA) showing the proposed transmitter site and a coordinate grid system. Exhibit VB-4B is a reduced version of the same 7.5 minute topographic quadrangle map that shows the proposed transmitter site and all official markings to verify the coordinate grid system of Exhibit VB-4A.

Engineering Statement
Beacon Broadcasting Corporation
Allentown, Pennsylvania
Page Three

Exhibits VB-5A & VB-5B are maps showing the proposed coverage contour. Exhibit VB-5A is a section of a 1/250,000 scale topographic map (Newark, N.J.; PA., N.Y) showing the proposed transmitter site and the 1.0 mV/m (60 dBu) coverage contour. Exhibit VB-5B is a reduced version of the full 1/250,000 scale map showing the above noted information and containing all official markings and identifications to verify Exhibit VB-5A.

Exhibit VB-6 is a map showing an allocation study using the data listed in Tables I, III & IV of this report. As shown, Channel 207 complies with Section 73.509 of the Rules and Regulations.

Exhibit VB-7A is a statement addressing the procedures used to compute the interference area and showing compliance with Section 73.525 of the FCC Rules.

Exhibit VB-7B is a map showing the affected Channel 6 TV interference area using the data from Tables II, III & V of this report and shadow area.

Exhibit VB-7C is a map showing the effected Channel 6 TV interference area.

Exhibits VB-7D thru VB-7H are terrain profile graphs showing terrain elevations versus distance.

Exhibit VB-8 is a Table showing computation in compliance with the formulas

TABLE I

FM SEPARATION STUDY

BEACON BROADCASTING CORPORATION
 APPLICATION FOR A NEW
 NON COMMERCIAL FM STATION
 ALLENTOWN, PENNSYLVANIA

Channel 207A

0.15 kW(Max) DA

245 Meters

<u>Designation</u>	<u>Channel</u>	<u>Nearest Allocation or Authorized Station</u>	<u>Separation (km) Actual</u>	<u>Required</u>
Co-channel	207A	New Allentown, PA Apc., 891019MF	0.00	74 <u>3</u> /
	207A	WRDV, Warminster, PA Apc., BPED-88042MA	48.94	63 <u>4</u> /
	207A	WRDV, Warminster, PA Apc., BLED-801215AB	48.94	64 <u>4</u> /
	207A	WHHS, Havertown, PA	65.63	60 <u>2</u> /
1st Adjacent	206A	WXVU, Villanova, PA	56.78	41 <u>2</u> /
	206A	WYBF, Radnor Towns, PA	56.78	41 <u>2</u> /
	208A	New Bethlehem Town, PA Apc., 900202MC	15.48	29 <u>3</u> /
2nd Adjacent	205A	New, Sellersville, PA	21.51	22 <u>4</u> /
	209A	WDVR, Delaware Town, NJ	41.33	20 <u>2</u> /
3rd Adjacent	210	<u>1</u> /		

1st Adjacent	206A	WXVU, Villanova, PA	56.78	41 <u>2</u> /
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TABLE II

TV SEPARATION STUDY

BEACON BROADCASTING CORPORATION
APPLICATION FOR A NEW
NON COMMERCIAL FM STATION
ALLENTOWN, PENNSYLVANIA

Channel 207A

0.15 kW(Max) DA

245 Meters

Affected Channel 6
Television Station

Separation (km)
Actual Required

WPVI, Philadelphia, PA

60.28

196 / 1

/1 Stations to be considered in accordance with Section 73.525(a)(1) of the Rules and Regulations.

TABLE III
DISTANCE TO PROPOSED COVERAGE CONTOURS

BEACON BROADCASTING CORPORATION
APPLICATION FOR A NEW
NON COMMERCIAL FM STATION
ALLENTOWN, PENNSYLVANIA

Channel 207A 0.15 kW(Max) DA 245 Meters

Azimuth °True	Average Elevation 2-10 miles (meters A.M.S.L.)/1	Effective Antenna Height Above Average Terrain (Meters)	Effective Radiated Power (kW)	Distance to Proposed Contour (km)	
				70 dBu	60 dBu
0	127.1	269.3	0.124	10.1	18.0
45	122.5	273.9	0.144	10.6	18.9
90	143.2	253.2	0.11	9.6	16.9
135	166.1	230.3	0.032	6.5	11.9
180	199.3	197.1	0.061	7.1	12.8
225	219.1	177.3	0.148	8.6	15.2
270	123.4	273.0	0.124	10.2	18.1
315	111.8	284.6	0.147	10.9	19.3

Ground elevation at site A.M.S.L.	283.4 meters
Average elevation of terrain (2-10 miles) A.M.S.L.	151.6 meters
Effective antenna height above average terrain	244.8 meters / <u>2</u>
Effective antenna height above ground level	113.0 meters
Effective antenna height A.M.S.L.	396.4 meters
Overall tower height above ground level	203.6 meters
Overall tower height A.M.S.L.	487.0 meters

Coordinates

North Latitude: 40° 33' 54"
West Longitude: 75° 26' 26"

/1 Data taken from Television Station WFMZ-TV records on file with the FCC.
Data converted to meter from feet.

/2 Rounded to 245 meters.

LECHMAN & JOHNSON, INC.

Page 1
May 11, 1990

Title: ALLENTOWN, PA Latitude: 40-33-54
Channel: 207 C/R 396.4 meters (1300.5 feet) A.M.S.L. Longitude: 75-26-26

Bearing (degrees)	HAAT (meters) (feet)	ERP (kilowatts) (dBk)	60 dBu (1 mV/m) contour
.0	276.3 906.5	.124 -9.06	18.2 km 11.3 mi
10.0	274.6 900.9	.121 -9.16	18.1 km 11.2 mi
* 20.0	282.5 926.8	.124 -9.08	18.4 km 11.5 mi
* 30.0	278.4 913.4	.130 -8.85	18.5 km 11.5 mi
* 40.0	275.5 903.9	.140 -8.53	18.8 km 11.7 mi
45.0	274.9 901.9	.144 -8.41	18.9 km 11.7 mi
* 50.0	269.3 883.5	.147 -8.32	18.8 km 11.7 mi
* 60.0	247.1 810.7	.150 -8.24	18.1 km 11.2 mi
* 70.0	260.8 855.6	.145 -8.40	18.4 km 11.4 mi
* 80.0	242.5 795.6	.128 -8.93	17.2 km 10.7 mi
90.0	252.9 829.7	.111 -9.56	16.9 km 10.5 mi
* 100.0	263.0 862.9	.085 -10.7	16.1 km 10.0 mi
* 110.0	223.8 734.3	.061 -12.2	13.6 km 8.5 mi
* 120.0	220.9 724.7	.045 -13.5	12.6 km 7.8 mi
* 130.0	228.3 749.0	.035 -14.5	12.1 km 7.5 mi
135.0	234.6 769.7	.032 -14.9	12.0 km 7.4 mi

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Service contours based on FCC F(50,50) curves

Title: ALLENTOWN, PA Latitude: 40-33-54
Channel: 207 C/R 396.4 meters (1300.5 feet) A.M.S.L. Longitude: 75-26-26

Bearing (degrees)	HAAT (meters) (feet)	ERP (kiloWatts) (dBk)	60 dBu (1 mV/m) contour
* 140.0	235.9 774.0	.031 -15.1	11.9 km 7.4 mi
150.0	227.3 745.7	.031 -15.1	11.6 km 7.2 mi
* 160.0	216.5 710.3	.035 -14.5	11.8 km 7.3 mi
* 170.0	202.7 665.0	.045 -13.5	12.1 km 7.5 mi
180.0	204.4 670.6	.061 -12.2	13.0 km 8.1 mi
* 190.0	212.3 696.5	.085 -10.7	14.4 km 8.9 mi
* 200.0	210.6 690.9	.111 -9.56	15.3 km 9.5 mi
* 210.0	207.6 681.1	.131 -8.83	15.9 km 9.9 mi
* 220.0	183.5 602.0	.145 -8.40	15.4 km 9.6 mi
225.0	182.1 597.4	.148 -8.29	15.4 km 9.6 mi
* 230.0	192.6 631.9	.150 -8.24	15.9 km 9.9 mi
* 240.0	256.0 839.9	.147 -8.32	18.3 km 11.4 mi
* 250.0	273.8 898.3	.140 -8.53	18.7 km 11.6 mi
* 260.0	275.0 902.2	.130 -8.85	18.4 km 11.5 mi
270.0	273.9 898.6	.124 -9.08	18.1 km 11.3 mi
* 280.0	270.9 888.8	.121 -9.16	17.9 km 11.2 mi

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Service contours based on FCC F(50,50) curves

Title: ALLENTOWN, PA

Latitude: 40-33-54

Channel: 207 C/R 396.4 meters (1300.5 feet) A.M.S.L. Longitude: 75-26-26

Bearing (degrees)	HAAT (meters) (feet)	ERP (kiloWatts) (dBk)	60 dBu (1 mV/m) contour
* 290.0	270.5 887.5	.124 -9.06	18.0 km 11.2 mi
300.0	280.3 919.6	.132 -8.79	18.7 km 11.6 mi
* 310.0	274.3 899.9	.143 -8.45	18.8 km 11.7 mi
315.0	280.3 919.6	.147 -8.34	19.2 km 11.9 mi
* 320.0	287.5 943.2	.149 -8.27	19.5 km 12.1 mi
* 330.0	288.4 946.2	.149 -8.27	19.5 km 12.1 mi
* 340.0	298.9 980.6	.143 -8.45	19.7 km 12.2 mi
* 350.0	289.5 949.8	.132 -8.79	19.0 km 11.8 mi
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HAAT:	247.4 811.8		

Note: Radial(s) denoted by "*" not included in HAAT calculation.